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**From:** Barrios, Juan D [Juan.D.Barrios@wv.gov]  
**Sent:** 6/4/2018 4:43:38 PM  
**To:** Bleiler, Justin [Bleiler.Justin@epa.gov]  
**CC:** Jason.S.McDougal\_wv.gov [Jason.S.McDougal@wv.gov]  
**Subject:** RE: Needleseye

Hi Justin,

Last Thursday a manager for AML and I went for a site inspection in Minden. We found two portals on the Berwyn Land Co property. We have marked the locations for two sediments samples (total 4 possible samples). Also, we visited the house with the mudslide. How do you want the locations identified for you – latitude & longitude or shapefile?

Regarding Needles eye I have two basic questions:

1. How many samples do you plan to take? and
2. How do you plan to sample?

The Needles Eye location is approximately 3.5 acres. I suggest the use of the LiDAR for feature extraction, for the other area of Needles Eye to use a grid or randomly generated locations, kind of a hybrid model.

I have most of the work done for the sample location, please let me know what you want me to do.

Regards,

**Juan de Dios Barrios, Ph.D., GISP.**

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**From:** Bleiler, Justin <Bleiler.Justin@epa.gov>  
**Sent:** Monday, June 4, 2018 11:58 AM  
**To:** Barrios, Juan D <Juan.D.Barrios@wv.gov>  
**Cc:** McDougal, Jason S <Jason.S.McDougal@wv.gov>  
**Subject:** Needleseye

Hi Juan,

I hope you've been well. Have you had the chance to talk to the AML program and nail down the locations of the Needleseye mine portals?

Thanks,

Justin Bleiler  
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